

**Logistic regression results (shown as Estimate and P value) in cases with influenza (DATASET 3. n=2,164)**

| Variables                    | Model G ‡ |          |       | Model H  |          |     | Model I  |          |     | Model J  |          |     | Model K  |          |     | Model L  |          |     |
|------------------------------|-----------|----------|-------|----------|----------|-----|----------|----------|-----|----------|----------|-----|----------|----------|-----|----------|----------|-----|
|                              | Estimate  | Pr(> z ) |       | Estimate | Pr(> z ) |     | Estimate | Pr(> z ) |     | Estimate | Pr(> z ) |     | Estimate | Pr(> z ) |     | Estimate | Pr(> z ) |     |
| (Intercept)                  | -4.25413  | < 2e-16  | *** § | -4.5581  | < 2e-16  | *** | -4.6581  | < 2e-16  | *** | -4.5267  | < 2e-16  | *** | -4.4684  | < 2e-16  | *** | -4.55115 | < 2e-16  | *** |
| Acetaminophen                | 0.39303   | 1.05E-03 | **    | 0.3852   | 0.000929 | *** | 0.6893   | 0.000231 | *** | 0.27     | 0.0639   | .   | 0.07496  | 0.817    |     | 0.35885  | 0.0312   | *   |
| Oseltamivir                  | 1.244816  | 2.79E-05 | ***   | 1.1599   | 5.92E-05 | *** | 1.3268   | 1.18E-05 | *** | 1.1665   | 5.26E-05 | *** | 1.17154  | 4.91E-05 | *** | 1.16196  | 5.80E-05 | *** |
| Zanamivir                    | 1.446226  | 1.68E-06 | ***   | 1.3659   | 3.52E-06 | *** | 1.3518   | 5.40E-06 | *** | 1.2552   | 4.07E-05 | *** | 1.37414  | 3.00E-06 | *** | 1.36816  | 3.44E-06 | *** |
| Tipepidine                   | 0.149816  | 0.46032  |       |          |          |     |          |          |     |          |          |     |          |          |     |          |          |     |
| Carbocisteine                | -0.09399  | 0.56773  |       |          |          |     |          |          |     |          |          |     |          |          |     |          |          |     |
| Cyproheptadine               | -0.29989  | 0.23782  |       |          |          |     |          |          |     |          |          |     |          |          |     |          |          |     |
| Chlorophenylramine           | 0.022211  | 0.93406  |       |          |          |     |          |          |     |          |          |     |          |          |     |          |          |     |
| Ambroxol                     | 0.007712  | 0.97043  |       |          |          |     |          |          |     |          |          |     |          |          |     |          |          |     |
| Dimemorfan                   | 0.417776  | 0.25936  |       |          |          |     |          |          |     |          |          |     |          |          |     |          |          |     |
| Clarithromycin               | -0.52246  | 0.02261  | *     |          |          |     |          |          |     |          |          |     |          |          |     |          |          |     |
| Dextromethorphan             | -0.10414  | 0.69447  |       |          |          |     |          |          |     |          |          |     |          |          |     |          |          |     |
| LT20 ¶                       | 2.376185  | < 2e-16  | ***   | 2.471    | < 2e-16  | *** | 2.4651   | < 2e-16  | *** | 2.4694   | < 2e-16  | *** | 2.35367  | < 2e-16  | *** | 2.47117  | < 2e-16  | *** |
| GenderF                      | -0.69597  | 0.09585  | .     |          |          |     |          |          |     |          |          |     |          |          |     |          |          |     |
| GenderM                      | -0.05562  | 0.89232  |       |          |          |     |          |          |     |          |          |     |          |          |     |          |          |     |
| HighReportYear †             | 1.280046  | < 2e-16  | ***   | 1.2489   | < 2e-16  | *** | 1.2527   | < 2e-16  | *** | 1.2525   | < 2e-16  | *** | 1.24989  | < 2e-16  | *** | 1.23091  | < 2e-16  | *** |
| Acetaminophen:Oseltamivir    |           |          |       |          |          |     | -0.4998  | 0.037205 | *   |          |          |     |          |          |     |          |          |     |
| Acetaminophen:Zanamivir      |           |          |       |          |          |     |          |          |     | 0.3216   | 0.1871   |     |          |          |     |          |          |     |
| Acetaminophen:LT20           |           |          |       |          |          |     |          |          |     |          |          |     | 0.35952  | 0.3      |     |          |          |     |
| Acetaminophen:HighReportYear |           |          |       |          |          |     |          |          |     |          |          |     |          |          |     | 0.05165  | 0.8244   |     |

¶ LT20 includes teenagers, less than 10, newborn, child and adolescence. †HighReportingYear includes reporting year 2007 and 2008. § Signif. codes are as follows; <0.001 '\*\*\*', <0.01 '\*\*', <0.05 '\*' <0.1 '.'

‡ Formulas for indexed models are as follows; Model G:formula = Abnormal.Behaviour ~ Acetaminophen + Oseltamivir + Zanamivir + Tipepidine + Carbocisteine + Cyproheptadine + Chlorophenylramine + Ambroxol + Dimemorfan + Clarithromycin + Dextromethorphan + LT20 + Gender + HighReportYear, Model H:formula = Abnormal.Behaviour ~ Acetaminophen + Oseltamivir + Zanamivir + LT20 + Gender + HighReportYear, Model I:formula = Abnormal.Behaviour ~ Acetaminophen + Oseltamivir + Zanamivir + LT20 + HighReportYear + Acetaminophen \* Oseltamivir, Model J:formula = Abnormal.Behaviour ~ Acetaminophen + Oseltamivir + Zanamivir + LT20 + HighReportYear + Acetaminophen \* Zanamivir, Model K:formula = Abnormal.Behaviour ~ Acetaminophen + Oseltamivir + Zanamivir + LT20 + HighReportYear + Acetaminophen \* LT20, Model L:formula = Abnormal.Behaviour ~ Acetaminophen + Oseltamivir + Zanamivir + LT20 + HighReportYear + Acetaminophen \* HighReportYear